

HAZARDOUS MATERIALS DATA SHEET
(PLEASE COMPLETE APPLICABLE SECTIONS)

1. PRODUCT NAME, NUMBER, SYNONYM: FLODINE #1200
2. MANUFACTURER'S NAME: AMCHEM PRODUCTS INC.
3. MANUFACTURER'S ADDRESS: AMBLER, PENNA
4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: _____
5. TRANSPORTATION AND STORAGE REQUIREMENTS: _____
6. FIRST AID TREATMENT:
- A. SKIN CONTACT: _____
- B. EYE CONTACT: _____
- C. INHALATION: _____
- D. ANTIDOTE IN CASE OF SWALLOWING: _____
7. PHYSIOLOGICAL PROPERTIES:
- A. ACUTE ORAL TOXICITY: _____
- B. LOCAL EFFECTS UPON EYES: _____
- C. LOCAL EFFECTS UPON SKIN: _____
- D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): _____
- E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): _____
- F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): _____
8. CHEMICAL AND PHYSICAL PROPERTIES:
- A. SPECIFIC GRAVITY (WATER = 1) _____ B. VAPOR DENSITY (AIR = 1) _____
- C. VAPOR PRESSURE mm Hg AT 25°C. _____ D. pH _____
- E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: _____

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F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STORAGE? OXIDIZERS? _____

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT
CHROMIC ACID	20-40 "TLV" = 0.1 mg/m ³
COMPLEX FLUORIDE SALTS	40-60 TLV = 2.5 mg/m ³
POTASSIUM FERRICYANIDE	15-25 TLV (skin) = 5 mg/m ³

NOTE: GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES, CHLORINATED HYDROCARBONS, ETC., ARE NOT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROPER CHEMICAL NAMES MUST BE KNOWN.

H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? _____

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: _____

10. RECOMMENDED PROTECTIVE EQUIPMENT: _____

11. A. FLASHPOINT °F: CLOSED CUP _____; OPEN CUP _____; IF F.P. CHANGES DURING EVAPORATION GIVE DATA: _____

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER _____; UPPER _____

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES _____; NO _____

D. FIRE POINT °F _____; AUTO IGNITION TEMPERATURE °F _____

E. VAPOR DENSITY _____

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? _____

G. SUITABLE EXTINGUISHING AGENTS: _____

12. INFORMATION FURNISHED BY:

TITLE:

COMPANY:

ADDRESS:

DATE:

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

TOXICOLOGICAL AND SAFE HANDLING INFORMATION
(For Use by Medical and Safety Personnel)

1. **PRODUCT:** Alodine Nos. 1200, 1200 Touch-Up, and 1200S
2. **MANUFACTURER:** Amchem Products, Inc., Ambler, Pennsylvania
3. **STORAGE REQUIREMENTS:** Store in a cool, dry area away from a heat source or oxidizable or flammable materials. Do not allow Alodine Nos. 1200 and 1200S to come into contact with strong acids.
4. **PROTECTIVE EQUIPMENT:** The use of rubber gloves, aprons, face shields, goggles, etc., is recommended when handling Alodine.
5. **CARE OF BREAKAGE OR LEAKAGE:** Transfer the contents to a clean, polyethylene-lined drum. Discard the broken container after rinsing thoroughly with water. Organic materials such as sawdust, wood, paper, or cloth which have been saturated with Alodine can be readily ignited when dry. Such materials should be thoroughly rinsed, and, if discarded, put in a fireproof container.
6. **FIRST AID:**
 - a. Skin Contact: Treat as for corrosive chemicals. Wash thoroughly with soap and water immediately after contact. Prolonged contact with Alodine, especially in hot, humid weather, can cause dermatitis or chemical burns.
 - b. Eye Contact: Flush with large amounts of water immediately after contact. Call a doctor.
 - c. Inhalation: Prolonged inhalation can cause injury to the mucous membranes and respiratory tract. Adequate exhaust systems, masks, respirators, etc., should be provided.
 - d. Ingestion: Treat as for corrosive chemicals.
7. **PROPERTIES:**
 - a. State: Alodine Nos. 1200 and 1200S are powders. Alodine No. 1200 Touch-Up is a liquid having a specific gravity of 1.011 at 60°F.
 - b. Description: These Alodines are acidic, corrosive materials containing chromates, fluorides, and complex cyanide salts.
 - c. Flammability: These Alodines are nonflammable chemicals which are slightly prone to spontaneous heating in moist atmospheres. If heated to the decomposition point, they will emit highly toxic cyanide fumes.

The chromates present in Alodines are very strong oxidizing agents and will intensify any fire of which they are a part. Should organic materials such as rags and wood become saturated with the chromates, they may, under certain conditions, undergo spontaneous combustion.

8. EXTINGUISHING AGENTS: The use of water is recommended for Class A or Class B fires containing oxidizing agents.

Date: March 1963